

National Institute
of Standards and Technology



National Voluntary
Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation



Revised 8/25/2004

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CALIBRATION LABORATORIES

NVLAP LAB CODE 200366-0

RESL - DOE LABORATORY ACCREDITATION PROGRAM

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NVLAP Code: 20/A01

ANSI/NCSL Z540-1-1994; Part 1

Compliant

IRRADIATION OF PERSONNEL DOSIMETERS

| Calibration Category | Radiation Type or Beam Code | Nominal Intensity Range | Uncertainty of Delivered Quantity ^{note 1} |
|-------------------------|--------------------------------|-------------------------|--|
| Gamma | ²⁴¹ Am | 0.05 to 5 rem | 2.0% |
| | ¹³⁷ Cs | 0.03 to 500 rad | 2.3% |
| X-ray | M30 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | M50 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | M60 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | M100 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | M150 ^{note 2} | 0.03 to 500 rad | 3.0% |
| | M200 ^{note 2} | 0.03 to 10 rem | 3.0% |

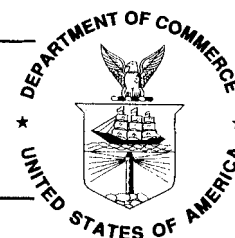
December 31, 2004

Effective through

A handwritten signature in black ink, appearing to read "William R. Muhl".

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| | | | |
|------|-----------------------------------|----------------|------|
| | M250 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | H50 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | H60 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | H100 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | H150 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | H200 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | H250 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | H300 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | S60 ^{note 2} | 0.03 to 10 rem | 3.0% |
| | NS20 ^{note 3} | 0.03 to 10 rem | 3.0% |
| | NS80 ^{note 3} | 0.03 to 10 rem | 3.0% |
| | NS150 ^{note 3} | 0.03 to 10 rem | 3.0% |
| | WS150 ^{note 3} | 0.03 to 10 rem | 3.0% |
| Beta | ²⁰⁴ Tl | 0.15 to 10 rem | 4.5% |
| | ⁹⁰ Sr/ ⁹⁰ Y | 0.15 to 10 rem | 4.7% |
| | Uranium Slab | 0.15 to 10 rem | 4.6% |

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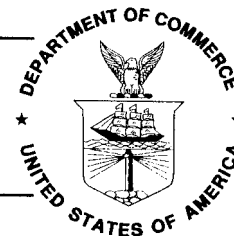
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1. Values listed at the 95% confidence level using a coverage factor, $k=2$
 2. NIST X-ray designation in NBS 250-16.
 3. ISO X-ray designation in ISO 4037, Pt.1.

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